

Datasheet: MCA421B BATCH NUMBER 162085

Description:	RAT ANTI MOUSE IgG2a HEAVY CHAIN:Biotin
Specificity:	IgG2a HEAVY CHAIN
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	LO-MG2a-7
Isotype:	lgG1
Quantity:	0.5 mg

Product Details

Applications	This product has been re derived from testing withi communications from the	n our labo originato	oratories, rs. Please	peer-reviewed publicate refer to references in	ations or personal ndicated for further		
	information. For general		ecommen	dations, please visit <u>w</u>	<u>vww.bio-</u>		
	rad-antibodies.com/proto						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry						
	Immunohistology - Frozen						
	Immunohistology - Paraffin						
	ELISA				0.5ug/ml - 1.0ug/ml		
	Western Blotting						
	Where this antibody has	not been	tested for	use in a particular teo	chnique this does not		
	necessarily exclude its us	se in such	procedu	res. Suggested workir	ng dilutions are given as		
	a guide only. It is recommended that the user titrates the antibody for use in their own						
	system using appropriate	negative	/positive o	controls.			
Target Species	Mouse						
Product Form	Purified IgG conjugated t	o Biotin -	liquid				
Preparation	Purified IgG prepared by	affinity ch	iromatogr	aphy from tissue cultu	ire supernatant		
Buffer Solution	Phosphate buffered salin	e					
Preservative	0.1% Sodium Azide						
Stabilisers	50% Glycerol						
Approx. Protein Concentrations	IgG concentration 1 mg/n	nl					

Immunogen	Purified IgG from BALB/c mice.
External Database Links	UniProt:
	P01863 Related reagents
	P01865 Related reagents
	P01864 Related reagents
	Entrez Gene:
	<u>380793</u> Igh-1a <u>Related reagents</u> <u>380793</u> Igh-1a <u>Related reagents</u>
	<u>360795</u> Ign-Ta <u>Related reagents</u>
RRID	AB_321823
Fusion Partners	Spleen cells from immunised LOU/c rats were fused with cells of the rat IR983F myeloma cell line.
Specificity	Rat anti Mouse IgG2a:Biotin, clone LO-MG2a-7 recognizes the gamma 2a heavy chain of mouse immunoglobulin and does not cross-react with other murine immunoglobulin classes or subclasses. Rat anti Mouse IgG2a Heavy Chain antibody, clone LO-MG2a-7 recognizes an allotypic determinant upon mouse IgG2a. It recognizes the IgHIa allotype (as expressed in Balb/c mice), but not the IgHIb allotype (as expressed in C57/BL mice).
References	 Bazin, H. (1982) Production of rat monoclonal antibodies with the LOU rat non secreting IR983F myeloma cell line. Prot Biol Fluids 615 - 8. Pergamon Press, Oxford and New York. Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. I. Rapid purification from in vitro culture supernatants. J Immunol Methods. 66 (2): 261-9. Bazin, H. <i>et al.</i> (1984) Rat monoclonal antibodies. II. A rapid and efficient method of purification from ascitic fluid or serum. J Immunol Methods. 71 (1): 9-16. Ormstad, H. <i>et al.</i> (2000) The fungal cell wall component beta-1,3-glucan has an adjuvant effect on the allergic response to ovalbumin in mice. J Toxicol Environ Health A. <u>61: 55-67.</u> Nagao, K. <i>et al.</i> (2003) Role of prostaglandin I2 in airway remodeling induced by repeated allergen challenge in mice. Am J Respir Cell Mol Biol. 29: 314-20. Ormstad, H. <i>et al.</i> (2003) The effect of endotoxin on the production of IgE, IgG1 and IgG2a antibodies against the cat allergen Fel d 1 in mice Toxicology. 188: 309-18. Hall, G. <i>et al.</i> (2003) Suppression of allergen reactive Th2 mediated responses and pulmonary eosinophilia by intranasal administration of an immunodominant peptide is linked to IL-10 production. <u>Vaccine. 21: 549-61.</u> Wolfowicz, C.B. <i>et al.</i> (2003) Expression and immunogenicity of the major house dust mite allergen Der p 1 following DNA immunization. <u>Vaccine. 21: 1195-204.</u> Tan, L.K. <i>et al.</i> (2006) Intramuscular immunization with DNA construct containing Der p 2 and signal peptide sequences primed strong IgE production. <u>Vaccine. 24: 5762-71.</u> Ramos, J.D.A. <i>et al.</i> (2009) Characterization of Blo t 11 Monoclonal Antibodies with Constant Region Mutations <u>Phil Sci Lett 2: 38-48.</u>

		•	(2017) Chronic Trichuris muris infection	
		the intestine and example 11 (6): e0005708.	cerbates tumour formation in APC min/+	mice. <u>PLoS Negl Trop Dis</u>
		13. DeGiovanni, C. e	t al. (2019) Cancer Vaccines Co-Targeting	g HER2/Neu and IGF1R.
			(4) Apr 11 [Epub ahead of print]. 019) TGFβ-activation by dendritic cells dr	ives Th17 induction and
		•	and augments the expulsion of the paras	
Further F	Reading	•	<i>I.</i> (1972) Transplantable immunoglobulin- nical characterization of four kappa chains <u>-9.</u>	-
		This product is chipp.		
Storage		-20°C on receipt. Wh	ed at ambient temperature. It is recomme en thawed, aliquot the sample as needed 4 weeks) and store the remaining aliquo	l. Keep aliquots at 2-8°C f
Storage		-20°C on receipt. Wh short term use (up to	en thawed, aliquot the sample as needed 4 weeks) and store the remaining aliquot	l. Keep aliquots at 2-8°C f ts at -20°C.
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Guarante Health A Informati Regulato	nd Safety ion ory Tel: +1 800 265 Fax: +1 919 878	-20°C on receipt. Wh short term use (up to Avoid repeated freezi frost-free freezers is n 12 months from date Material Safety Datas <u>https://www.bio-rad-a</u> 10328 For research purpose	en thawed, aliquot the sample as needed 4 weeks) and store the remaining aliquot ing and thawing as this may denature the not recommended. of despatch sheet documentation #10328 available at: ntibodies.com/SDS/MCA421B es only Tel: +44 (0)1865 852 700 Europe T Fax: +44 (0)1865 852 739 Europe T	I. Keep aliquots at 2-8°C fo ts at -20°C. antibody. Storage in

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